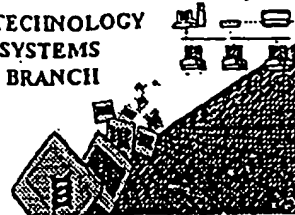BIOTECHNOLOGY
SYSTEMS
BRANCH

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information
Center (STIC) detected errors when processing the following computer readable
form:

Application Serial Number: 09/804 733 ₱

Source: ___ IF6J/6 ___

Date Processed by STIC: 3/24/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE
   APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A
   NOTICE TO COMPLY
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT
MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221
Effective 12/13/03: TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u>
<u>VERSION 4.1 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
   http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is
a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the
United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm> , EFS Submission
   User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to (EFFECTIVE 12/01/03):
   U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,
   2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office,
   Box Sequence, Room 4B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03
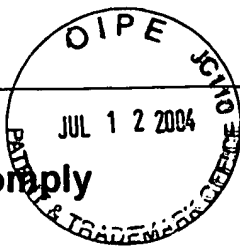
	Application No.	Applicant(s)
Notice to Comply	09/804,733	WANG ET AL
	Examiner	Art Unit	
	Gerald G. Leffers Jr.	1636	

NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

Applicant must file the items indicated below within the time period set the Office action to which the Notice is attached to avoid abandonment under 35 U.S.C. § 133 (extensions of time may be obtained under the provisions of 37 CFR 1.136(a)).

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

☐ 1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to the final rulemaking notice published at 55 FR 18230 (May 1, 1990), and 1114 OG 29 (May 15, 1990). If the effective filing date is on or after July 1, 1998, see the final rulemaking notice published at 63 FR 29620 (June 1, 1998) and 1211 OG 82 (June 23, 1998).

☐ 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).

☐ 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).

☒ 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."

☐ 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).

☐ 6. The paper copy of the "Sequence Listing" is not the same as the computer readable from of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).

☐ 7. Other:

Applicant Must Provide:

☒ An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".

☒ An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.

☒ A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).

For questions regarding compliance to these requirements, please contact:

For Rules Interpretation, call (703) 308-4216
For CRF Submission Help, call (703) 308-4212
PatentIn Software Program Support
    Technical Assistance..703-287-0200
    To Purchase PatentIn Software.......................703-306-2600

PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR REPLY

IFW16

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/804,733D

DATE: 03/24/2004
TIME: 15:55:24

Input Set : D:\Mons016.app
Output Set: N:\CRF4\03242004\I804733D.raw

```
 3 <110> APPLICANT: WANG, QI ET AL.
 5 <120> TITLE OF INVENTION: RECOMBINANT PROTEINS CONTAINING REPEATING UNITS
 7 <130> FILE REFERENCE: MONS:016US
 9 <140> CURRENT APPLICATION NUMBER: 09/804,733D
10 <141> CURRENT FILING DATE: 2001-03-13
12 <150> PRIOR APPLICATION NUMBER: 06/188,990    60/188,990
13 <151> PRIOR FILING DATE: 2000-03-13
15 <160> NUMBER OF SEQ ID NOS: 31
17 <170> SOFTWARE: PatentIn Ver. 2.1
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 5
21 <212> TYPE: PRT
22 <213> ORGANISM: Euthynnus pelamis
24 <400> SEQUENCE: 1
25 Leu Lys Pro Asn Met
26   1               5
29 <210> SEQ ID NO: 2
30 <211> LENGTH: 4
31 <212> TYPE: PRT
32 <213> ORGANISM: Euthynnus pelamis
34 <400> SEQUENCE: 2
35 Lys Pro Asn Met
36   1
39 <210> SEQ ID NO: 3
40 <211> LENGTH: 4
41 <212> TYPE: PRT
42 <213> ORGANISM: Euthynnus pelamis
44 <400> SEQUENCE: 3
45 Val Val Tyr Pro
46   1
49 <210> SEQ ID NO: 4
50 <211> LENGTH: 15
51 <212> TYPE: DNA
52 <213> ORGANISM: Artificial Sequence
54 <220> FEATURE:
55 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
56       Primer
58 <220> FEATURE:
59 <221> NAME/KEY: modified_base
60 <222> LOCATION: (3)..(9)
61 <223> OTHER INFORMATION: N = A, C, G or T/U
63 <400> SEQUENCE: 4
64 ctnaarccna ayatg
```

W--> (line 64 marker)

15

jr 1-2,6

3/24/04

RAW SEQUENCE LISTING   DATE: 03/24/2004
PATENT APPLICATION: US/09/804,733D   TIME: 15:55:24

        Input Set : D:\Mons016.app
        Output Set: N:\CRF4\03242004\I804733D.raw

     67 <210> SEQ ID NO: 5
     68 <211> LENGTH: 60
     69 <212> TYPE: DNA
     70 <213> ORGANISM: Artificial Sequence
     72 <220> FEATURE:
     73 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
     74   Primer
     76 <220> FEATURE:
     77 <221> NAME/KEY: modified_base
     78 <222> LOCATION: (3)..(54)
     79 <223> OTHER INFORMATION: N = A, C, G, or T/U
     81 <400> SEQUENCE: 5
W--> 82 ctnaarccna ayatgctnaa rccnaayatg ctnaarccna ayatgctnaa rccnaayatg 60
     85 <210> SEQ ID NO: 6
     86 <211> LENGTH: 60
     87 <212> TYPE: DNA
     88 <213> ORGANISM: Artificial Sequence
     90 <220> FEATURE:
     91 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
     92   Primer
     94 <220> FEATURE:
     95 <221> NAME/KEY: modified_base   *what about "n" at location 58?*
     96 <222> LOCATION: (7)..(52)
     97 <223> OTHER INFORMATION: N = A, C, G or T/U
     99 <400> SEQUENCE: 6
W--> 100 catrttnggy ttnagcatrt tnggyttnag catrttnggy ttnagcatrt tnggyttnag 60
    103 <210> SEQ ID NO: 7
    104 <211> LENGTH: 25
    105 <212> TYPE: DNA
    106 <213> ORGANISM: Artificial Sequence
    108 <220> FEATURE:
    109 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
    110   Primer
    112 <220> FEATURE:
    113 <221> NAME/KEY: modified_base
    114 <222> LOCATION: (12)..(18)
    115 <223> OTHER INFORMATION: N = A, C, G or T/U
    117 <400> SEQUENCE: 7   25
W--> 118 aaagaattcc tnaarccnaa yatgc
    121 <210> SEQ ID NO: 8
    122 <211> LENGTH: 27
    123 <212> TYPE: DNA
    124 <213> ORGANISM: Artificial Sequence
    126 <220> FEATURE:
    127 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
    128   Primer
    130 <220> FEATURE:
    131 <221> NAME/KEY: modified_base
    132 <222> LOCATION: (18)..(24)

RAW SEQUENCE LISTING   DATE: 03/24/2004
PATENT APPLICATION: US/09/804,733D   TIME: 15:55:24

        Input Set : D:\Mons016.app
        Output Set: N:\CRF4\03242004\I804733D.raw

```
      133 <223> OTHER INFORMATION: N = A, C, G or T/U
      135 <400> SEQUENCE: 8                                        27
W--> 136 aaagcggccg ccatrttngg yttnagc
      139 <210> SEQ ID NO: 9
      140 <211> LENGTH: 20
      141 <212> TYPE: DNA
      142 <213> ORGANISM: Artificial Sequence
      144 <220> FEATURE:
      145 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
      146       Primer
      148 <400> SEQUENCE: 9                                        20
      149 taatacgact cactataggg
      152 <210> SEQ ID NO: 10
      153 <211> LENGTH: 19
      154 <212> TYPE: DNA
      155 <213> ORGANISM: Artificial Sequence
      157 <220> FEATURE:
      158 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
      159       Primer
      161 <400> SEQUENCE: 10                                       19
      162 cgatcaataa cgagtcgcc
      165 <210> SEQ ID NO: 11
      166 <211> LENGTH: 48
      167 <212> TYPE: DNA
      168 <213> ORGANISM: Artificial Sequence
      170 <220> FEATURE:
      171 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
      172       Primer
      174 <220> FEATURE:
      175 <221> NAME/KEY: modified_base
      176 <222> LOCATION: (3)..(48)
      177 <223> OTHER INFORMATION: N = A, C, G or T/U
      179 <400> SEQUENCE: 11                                       48
W--> 180 gtngtntayc cngtgtgtnta yccngtngtn tayccngtng tntayccn
      183 <210> SEQ ID NO: 12
      184 <211> LENGTH: 48
      185 <212> TYPE: DNA
      186 <213> ORGANISM: Artificial Sequence
      188 <220> FEATURE:
      189 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
      190       Primer
      192 <220> FEATURE:
      193 <221> NAME/KEY: modified_base
      194 <222> LOCATION: (1)..(46)
      195 <223> OTHER INFORMATION: N = A, C, G or T/U
      197 <400> SEQUENCE: 12                                       48
W--> 198 nggrtanacn acnggrtana cnacnggrta nacnacnggr tanacnac
      201 <210> SEQ ID NO: 13
      202 <211> LENGTH: 33
```

```
    203 <212> TYPE: DNA
    204 <213> ORGANISM: Artificial Sequence
    206 <220> FEATURE:
    207 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
    208       Primer
    210 <220> FEATURE:
    211 <221> NAME/KEY: modified_base
    212 <222> LOCATION: (12)..(33)
    213 <223> OTHER INFORMATION: N = A, C, G or T/U
    215 <400> SEQUENCE: 13
W--> 216 aaaggatccg tngtntaycc ngtngtntay ccn                        33
    219 <210> SEQ ID NO: 14
    220 <211> LENGTH: 33
    221 <212> TYPE: DNA
    222 <213> ORGANISM: Artificial Sequence
    224 <220> FEATURE:
    225 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
    226       Primer
    228 <220> FEATURE:
    229 <221> NAME/KEY: modified_base
    230 <222> LOCATION: (10)..(31)
    231 <223> OTHER INFORMATION: N = A, C, G or T/U
    233 <400> SEQUENCE: 14
W--> 234 cccaagcttn ggrtanacna cnggrtanac nac                        33
    237 <210> SEQ ID NO: 15
    238 <211> LENGTH: 45
    239 <212> TYPE: DNA
    240 <213> ORGANISM: Artificial Sequence
    242 <220> FEATURE:
    243 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
    244       Primer
    246 <220> FEATURE:
    247 <221> NAME/KEY: modified_base
    248 <222> LOCATION: (3)..(45)
    249 <223> OTHER INFORMATION: N = A, C, G or T/U
    251 <400> SEQUENCE: 15
W--> 252 gtnccnccng tnccnccngt nccnccngtn cnccngtnc cnccn          45
    255 <210> SEQ ID NO: 16
    256 <211> LENGTH: 45
    257 <212> TYPE: DNA
    258 <213> ORGANISM: Artificial Sequence
    260 <220> FEATURE:
    261 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
    262       Primer
    264 <220> FEATURE:
    265 <221> NAME/KEY: modified_base
    266 <222> LOCATION: (1)..(43)
    267 <223> OTHER INFORMATION: N = A, C, G or T/U
    269 <400> SEQUENCE: 16
```

RAW SEQUENCE LISTING   DATE: 03/24/2004
PATENT APPLICATION: US/09/804,733D TIME: 15:55:24

Input Set : D:\Mons016.app
Output Set: N:\CRF4\03242004\I804733D.raw

W--> 270 nggnggnacn ggnggnacng gnggnacngg nggnacnggn ggnac   45
  273 <210> SEQ ID NO: 17
  274 <211> LENGTH: 36
  275 <212> TYPE: DNA
  276 <213> ORGANISM: Artificial Sequence
  278 <220> FEATURE:
  279 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
  280   Primer
  282 <220> FEATURE:
  283 <221> NAME/KEY: modified_base
  284 <222> LOCATION: (12)..(36)
  285 <223> OTHER INFORMATION: N = A, C, G or T/U
  287 <400> SEQUENCE: 17
W--> 288 aaaggatccg tnccnccngt nccnccngtn ccnccn   36
  291 <210> SEQ ID NO: 18
  292 <211> LENGTH: 36
  293 <212> TYPE: DNA
  294 <213> ORGANISM: Artificial Sequence
  296 <220> FEATURE:
  297 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
  298   Primer
  300 <220> FEATURE:
  301 <221> NAME/KEY: modified_base
  302 <222> LOCATION: (10)..(34)
  303 <223> OTHER INFORMATION: N = A, C, G or T/U
  305 <400> SEQUENCE: 18
W--> 306 aataagcttn ggnggnacng gnggnacngg nggnac   36
  309 <210> SEQ ID NO: 19
  310 <211> LENGTH: 8
  311 <212> TYPE: PRT
  312 <213> ORGANISM: Artificial Sequence
  314 <220> FEATURE:
  315 <223> OTHER INFORMATION: Description of Artificial Sequence:m Synthetic
  316   Peptide
  318 <400> SEQUENCE: 19
  319 Val Pro Pro Leu Lys Pro Asn Met
  320 1   5
  323 <210> SEQ ID NO: 20
  324 <211> LENGTH: 48
  325 <212> TYPE: DNA
  326 <213> ORGANISM: Artificial Sequence
  328 <220> FEATURE:
  329 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
  330   Primer
  332 <220> FEATURE:
  333 <221> NAME/KEY: modified_base
  334 <222> LOCATION: (3)..(42)
  335 <223> OTHER INFORMATION: N = A, C, G or T/U
  337 <400> SEQUENCE: 20

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 03/24/2004
PATENT APPLICATION: US/09/804,733D   TIME: 15:55:25

Input Set : D:\Mons016.app
Output Set: N:\CRF4\03242004\I804733D.raw

<u>Please Note:</u>
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:4; N Pos. 3,9
Seq#:5; N Pos. 3,9,18,24,33,39,48,54
Seq#:6; N Pos. 7,13,22,28,37,43,52,58
Seq#:7; N Pos. 12,18
Seq#:8; N Pos. 18,24
Seq#:11; N Pos. 3,6,12,15,18,24,27,30,36,39,42,48
Seq#:12; N Pos. 1,7,10,13,19,22,25,31,34,37,43,46
Seq#:13; N Pos. 12,15,21,24,27,33
Seq#:14; N Pos. 10,16,19,22,28,31
Seq#:15; N Pos. 3,6,9,12,15,18,21,24,27,30,33,36,39,42,45
Seq#:16; N Pos. 1,4,7,10,13,16,19,22,25,28,31,34,37,40,43
Seq#:17; N Pos. 12,15,18,21,24,27,30,33,36
Seq#:18; N Pos. 10,13,16,19,22,25,28,31,34
Seq#:20; N Pos. 3,6,9,12,18,27,30,33,36,42
Seq#:21; N Pos. 7,13,16,19,22,31,37,40,43,46
Seq#:22; N Pos. 13,16,19,22,28,37,40,43,46,52
Seq#:23; N Pos. 19,25,28,31,34,40,43,46,55,61,64,67,70,76,79,82
Seq#:25; N Pos. 3,6,9,15,18,21,24,30,39,42,45,51,54,57,60,66
Seq#:26; N Pos. 7,13,16,19,22,28,31,34,43,49,52,55,58,64,67,70
Seq#:27; N Pos. 13,16,19,25,28,31,34,40,49,52,55,61,64,67,70,76
Seq#:28; N Pos. 19,25,28,31,34,40,43,46,55,61,64,67,70,76,79,82
Seq#:30; N Pos. 3,9,18,24,33,39,48,54,63,69,78,84,93,99,108,114,123,129,138
Seq#:30; N Pos. 144,153,159,168,174,183,189,198,204,213,219,228,234,243,249
Seq#:30; N Pos. 258,264,273,279,288,294,303,309,318,324,333,339,348,354,363
Seq#:30; N Pos. 369,378,384,393,399,408,414,423,429,438,444,453,459,468,474
Seq#:30; N Pos. 483,489,498,504,513,519,528,534,543,549,558,564,573,579,588
Seq#:30; N Pos. 594,603,609
Seq#:31; N Pos. 3,9,18,24,33,39,48,54,63,69,78,84,93,99,108,114,123,129,138
Seq#:31; N Pos. 144,153,159,168,174,183,189,198,204,213,219,228,234,243,249
Seq#:31; N Pos. 258,264,273,279,288,294,303,309,318,324,329,335,344,350,359
Seq#:31; N Pos. 365,374,380,385,391

VERIFICATION SUMMARY.   DATE: 03/24/2004
PATENT APPLICATION: US/09/804,733D   TIME: 15:55:25

Input Set : D:\Mons016.app
Output Set: N:\CRF4\03242004\I804733D.raw

L:64 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:82 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:100 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:118 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:136 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:180 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:216 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:234 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:252 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:270 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:288 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:306 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:338 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:356 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:374 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
L:392 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
M:341 Repeated in SeqNo=23
L:425 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
M:341 Repeated in SeqNo=25
L:444 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
M:341 Repeated in SeqNo=26
L:463 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
M:341 Repeated in SeqNo=27
L:482 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
M:341 Repeated in SeqNo=28
L:511 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
M:341 Repeated in SeqNo=30
L:539 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
M:341 Repeated in SeqNo=31